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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of : Franz Dietrich Klingler et al) Art Unit: 1614

U.S. Appln. No. : 10/797,313) Examiner: Theresa Frederick

Confirmation No.: 4269

U.S. Filing Date: March 10, 2004

Title of Invention: ENANTIOSELECTIVE HYDROGENATION OF INTERMEDIATES

IN THE SYNTHESIS OF TIPRANAVIR

Attny. Docket No.: 1/1473

Mail Stop Amendment Commissioner for Patents P. O. Box 1450 Alexandria, VA 22313-1450

August 30, 2004

TRANSMITTAL LETTER FOR INFORMATION DISCLOSURE STATEMENT

Sir:
Transmitted herewith concerning the subject application is an Information Disclosure Statement (Form 1449A/B) under 37 C.F.R. §§1.56 and 1.97, as more specifically described hereinbelow.
1.97(b). This Statement is being filed: i) within three (3) months of the filing date of a national application other than a continued prosecution application under 33 C.F.R. §1.53 (d); ii) within three (3) months of the date of entry of the national stage as set forth in 37 C.F.R. §1.491 in an international application; iii) before the mailing of a first Office action on the merits; or iv) before the mailing of a first Office action after the filing of a request for continued examination under 37 C.F.R. §1.114.
1.97(c). This Statement is being filed after the time period specified in 37 C.F.R. §1.97(b), but before the mailing date of: i) a final action under 37 C.F.R. §1.113, ii) a notice of allowance under 37 C.F.R. §1.311, or iii) an action that otherwise closes prosecution the application. This Statement is being accompanied by:
A statement as specified in 37 C.F.R. §1.97(e) [see below]; or
The fee set forth in 27 C E P &1 17(n)

		The Commissioner is hereby authorized to charge payment of the \$180.00 fee set forth in 37 C.F.R. §1.17(p) to Deposit Account No. 02-2955.
	ent as s	This Statement is being filed after the period specified in 37 C.F.R. n or before payment of the issue fee. This Statement is accompanied by a pecified in 37 C.F.R. §1.97(e) [see below] and the fee set forth in 37 C.F.R.
	1.97(e).
	counte	Each item of information contained in the instant information disclosure ent was first cited in any communication from a foreign patent office in a repart foreign application not more than three (3) months prior to the filing of tant information disclosure statement; or
	foreign makin inform §1.56(No item of information contained in the instant information disclosure ent was cited in a communication from a foreign patent office in a counterpart application, and, to the knowledge of the person signing this certification after greasonable inquiry, no item of information contained in the instant lation disclosure statement was known to any individual designated in 37 C.F.R. c) more than three (3) months prior to the filing of the instant information sure statement.
		The fee set forth in 37 C.F.R. §1.17(p).
		The Commissioner is hereby authorized to charge payment of the \$180.00 fee set forth in 37 C.F.R. §1.17(p) to Deposit Account No. 02-2955.
ounter n secti	part ap	d). Each item of information contained in the accompanying information ement was cited in a communication from a foreign patent office in a plication, which communication was not received by any individual designated (c) more than thirty (30) days prior to the filing of the accompanying sclosure statement

The Commissioner is hereby authorized to charge payment of any additional filing fees required under 37 C.F.R. §1.16 and any patent application processing fees under 37 C.F.R. §1.17, or credit any overpayment of same, to Deposit Account No. 02-2955.

Triplicate copies of this form are enclosed.

Respectfully submitted,

Alan R. Stempel

Attorney for Applicant(s

Reg. No. 28,991

Patent Department Boehringer Ingelheim Corp. 900 Ridgebury Road, P.O. Box 368 Ridgefield, CT 06877 Tel: (203) 798-4868 Certificate of Mailing

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as first class mail in an envelope addressed to:

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on August 30, 2004

Alan R. Stempel, Reg. N

PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Known

Application Number 10/797,313

Filing Date March 10, 2004

First Named Inventor Franz Dietrich Klingler

Art Unit 1614

Examiner Name Theresa Frederick

(Use as many sheets as necessary)

Sheet 1 of 2 Attorney Docket Number 1/1473

			U. S. PATENT I	DOCUMENTS		
Examiner Initials*	Cite No. ¹	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant
		Number-Kind Code ^{2 (If known)}		, pp	Figures Appear	
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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document  Country Code ³ 'Number ⁴ 'Kind Code ⁵ (# known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		WO 00/55150	09/21/2000	Pharmacia & Upjohn		
		WO 99/12919	03/18/1999	Pharmacia & Upjohn	XXI	
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Examiner	Date	
Signature	Conside	red

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08b (08-03)

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Substitute for form 1449B/PTO

Sheet

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

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	Complete if Known	•
Application Number	10/797,313	
Filing Date	March 10, 2004	
First Named Inventor	Franz Dietrich Klingler	
Art Unit	1614	
Examiner Name	Theresa Frederick	
Attorney Docket Number	1/1473	

NON PATENT LITERATURE DOCUMENTS					
Examiner Cite No.1		Title magazino journal carial composium catalog etc.) data paga(s) valuma issua number(s) publisher eitu			
		JENS HOLZ ET AL; Synthesis of a New Chiral Bisphospholane Ligand for the Rh(I)-Catalyzed Enantioselective Hydrogenation of Isomeric beta-Acylamido Acrylates; J. Org. Chem 2003 Vol. 68 pages 1701-1707; American Chemical Society			
		STEVE R. TURNER ET AL; Tipranavir (PNU-140690): A Potent, Orally Bioavailable Nonpeptidic HIV Protease Inhibitor of the 5,6-Dihydro-4-hydroxy-2-pyrone Sulfonamide Class; J. Med. Chem 1998 Vol. 41 pages 3467-3476; American Chemical Society			
		Copy of International Search Report Reference No. PCT/EP2004/002894			
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Examiner	Date	
Signature	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.